

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.03.2012
Date of Reporting : 11.03.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
29371	1550	30920	49.87	25025	300	25325	49.98	668.3	37.30

* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	41.48	12.59		54.07	44.83	42.56	-2.27	96.63	1.80
Haryana	51.25	0.57		51.82	25.97	44.93	18.96	96.75	3.25
Rajasthan	82.72	4.45	2.69	89.85	46.28	62.13	15.84	151.97	1.57
Delhi	24.62			24.62	34.78	27.93	-6.85	52.55	0.00
UP	81.76	7.36	14.40	103.53	82.47	83.39	0.92	186.92	27.84
Uttarakhand		10.17		10.17	13.75	15.95	2.20	26.12	0.94
HP		5.59		5.59	17.12	15.95	-1.17	21.54	0.00
J & K		8.10	0.00	8.10	22.21	24.64	2.43	32.74	1.90
Chandigarh				0.00	3.53	3.05	-0.47	3.05	0.00
Total	281.82	48.83	17.09	347.74	290.94	320.54	29.59	668.27	37.30

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

State	Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	4320	150	-324	-240	3262	0	-125	-148	-4.10
Haryana	4342	50	928	-173	3257	0	360	-173	-4.15
Rajasthan	5864	0	93	6	6711	0	1401	6	2.35
Delhi	2740	0	-18	-207	1274	0	-494	-592	-7.53
UP	8274	1100	138	265	7638	300	173	265	6.36
Uttarakhand	1283	150	84	150	840	0	134	150	3.60
HP	915	0	-388	-324	683	0	73	146	-0.09
J&K	1467	100	15	-18	1281	0	142	-18	-0.44
Chandigarh	166	0	-43	0	79	0	-15	0	0.00
Total	29371	1550	485	-541	25025	300	1649	-364	-3.99

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1960	2116	2099	47.78	1991	46.49	1.30
	Rihand I STPS	1000	890	968	950	21.56	898	20.78	0.78
	Rihand II STPS	1000	975	1038	1030	23.65	986	22.65	1.00
	Dadri I STPS	840	769	810	616	17.03	710	16.68	0.35
	Dadri II STPS	980	956	1005	977	22.59	941	20.80	1.79
	Unchahar I TPS	440	347	381	337	8.22	342	7.88	0.34
	Unchahar II TPS	440	347	343	432	8.18	341	7.58	0.60
	Unchahar III TPS	210	174	168	207	4.11	171	3.83	0.28
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	834	566	520	13.67	570	14.01	-0.35
	Anta GPS	419	413	266	239	6.13	255	5.76	0.36
	Auraiya GPS	663	482	318	292	7.30	304	7.25	0.05
	Sub Total (A)	9822	8147	7979	7699	180.23	7510	173.73	6.50
	B. NPC	NAPS	440	281	315	322	6.71	279	6.74
RAPS- B		440	424	462	469	10.15	423	10.18	-0.03
RAPS- C		440	420	475	476	10.26	427	10.08	0.18
Sub Total (B)		1320	1125	1252	1267	27.11	1130	27.00	0.11
C. NHPC	Chamera I HPS	540	534	540	540	6.85	285	6.74	0.10
	Chamera II HPS	300	297	299	0	1.63	68	1.64	-0.01
	Bairasuil HPS	180	179	179	120	2.32	97	2.33	-0.01
	Salal-HPS	690	260	301	220	5.99	250	6.26	-0.27
	Tanakpur-HPS	94	26	29	19	0.58	24	0.58	0.00
	Uri-HPS	480	458	480	480	11.30	471	10.72	0.58
	Dhauliganga-HPS	280	210	212	0	0.94	39	0.89	0.05
	Dulhasti-HPS	390	388	409	0	3.09	129	3.00	0.10
	Sewa-II HPS	120	119	100	101	2.68	112	2.54	0.15
	Sub Total (C)	3074	2471	2549	940	35.38	1474	34.69	0.68
D. NJPC	Nathpa Jhakri	1500	1267	1599	0	6.81	284	7.00	-0.19
	Sub Total (D)	1500	1267	1599	0	6.81	284	7.00	-0.19
E. THDC	Tehri HPS	1000	820	829	0	7.53	314	7.50	0.03
	Koteshwar HPS	300	300	297	0	2.68	112	2.60	0.08
	Sub Total (E)	1300	1120	1126	0	10.21	425	10.10	0.11
F. BBMB	Bhakra HPS	1480	776	994	415	18.92	788	18.63	0.29
	Dehar HPS	990	165	495	0	4.01	167	3.96	0.05
	Pong HPS	396	237	366	126	5.85	244	5.69	0.16
	Sub Total (F)	2866	1179	1855	541	28.78	1199	28.29	0.49
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	63	0	0.30	13	0.29	0.01
	KWHEP HPS(IPP)	1000	0	300	0	3.62	151	4.19	-0.57
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	117	120	2.91	121	2.78	0.13
	Sub Total (G)	1592	0	480	120	6.83	285	7.26	-0.42
H. Total Regional Entities (A-G)	21475	15308	16840	10567	295.35	12306	288.07	7.29	

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)	
Punjab	Guru Gobind Singh TPS (Ropar)	1260	835	760	18.36	765	
	Guru Nanak Dev TPS(Bhatinda)	440	111	90	1.69	70	
	Guru Hargobind Singh TPS(L.mbt)	920	897	969	21.43	893	
	Thermal (Total)	2620	1843	1819	41.48	1728	
	Total Hydro	1148	574	455	12.59	524	
	Total Punjab	3768	2417	2274	54.07	2253	
Haryana	Panipat TPS	1360	876	872	21.38	891	
	DCRTPP (Yamuna nagar)	600	289	278	6.59	275	
	Faridabad GPS (NTPC)	432	419	327	9.62	401	
	RGTPP (khedar) (IPP)	1200	484	560	13.66	569	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2068	2037	51.25	2135	
	Total Hydro	62	27	19	0.57	24	
	Total Haryana	4339	2095	2056	51.82	2159	
Rajasthan	kota TPS	1240	1168	1169	26.99	1125	
	suratgarh TPS	1500	1129	1150	27.10	1129	
	Chabra TPS	500	221	189	4.94	206	
	Dholpur GPS	330	286	271	6.90	288	
	Ramgarh GPS	113	40	42	1.04	43	
	RAPS A (NPC)	300	184	184	4.54	189	
	Barsingsar (NLC)	250	138	99	3.03	126	
	Giral LTPS (IPP)	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	332	397	8.17	340	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5158	3498	3501	82.72	3446	
	Total Hydro	550	174	179	4.45	185	
	Wind power	1294	10	0	1.84	77	
	Biomass	71	35	35	0.85	35	
	Solar	50	0	0	0.00	0	
	Renewable/Others (Total)	1365	45	35	2.69	112	
	Total Rajasthan	7073	3717	3715	89.85	3744	
	UP	Anpara TPS	1630	1337	1369	32.40	1350
		Obra TPS	1442	502	513	12.90	538
Paricha TPS		640	239	236	5.60	233	
Panki TPS		210	135	140	3.30	138	
Harduaganj TPS		415	40	40	0.90	38	
Tanda TPS (NTPC)		440	400	323	9.46	394	
Roza TPS (IPP)		900	279	284	6.72	280	
Anpara-C (IPP)		1200	432	423	8.59	358	
Bajaj Energy Pvt.Ltd(IPP) TPS		180	79	79	1.89	79	
Thermal (Total)		7057	3443	3407	81.76	3407	
Vishnuparyag HPS (IPP)		400	59	74	1.69	70	
Other Hydro		527	253	57	5.68	237	
Cogeneration		951	600	600	14.40	600	
Total UP		8935	4355	4138	103.53	4243	
Uttarakhand		Total Hydro	1303	523	302	10.17	424
	Total Uttarakhand	1303	523	302	10.17	424	
Delhi	Rajghat TPS	135	108	108	2.55	106	
	Delhi Gas Turbine	282	77	78	1.98	83	
	Pragati Gas Turbine	330	304	266	7.89	329	
	Rithala GPS	108	30	30	0.69	29	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	570	425	11.51	479	
	Thermal (Total)	2000	1089	907	24.62	1026	
	Total Delhi	2000	1089	907	24.62	1026	
HP	Baspa HPS (IPP)	330	0	0	0.99	41	
	Malana HPS (IPP)	101	2	0	0.27	11	
	Other Hydro	571	181	131	4.34	181	
	Total HP	1002	183	131	6	233	
J & K	Baglihar HPS (IPP)	450	238	234	5.69	237	
	Other Hydro	323	95	105	2.41	101	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	333	339	8.10	338	
Total State Control Area Generation		29376	14712	13862	347.74	14419	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			650	1682	52.95	2206	
Total Regional Availability(Gross)		50851	32202	26111	696.04	28931	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7492	1481	85.10	3546
State Control Area Hydro	5365	2067	1482	47.14	1964
Total Regional Hydro	15397	9559	2963	132.24	5510

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	0	0	200	0	0.66	0.00	0.66
Gwalior-Agra (D/C)	308	850	1080	0	19.13	0.00	19.13
Zerda-Kankroli	-65	36	104	65	0.55	0.00	0.55
Zerda-Bhinmal	-18	157	301	42	3.26	0.00	3.26
Malanpur-Auraiya	-92	-20	0	160	0.00	1.03	-1.03
Badod-Kota/Morak	46	57	98	26	1.19	0.00	1.19
Sub Total WR	179	1080			24.79	1.03	23.76
Pusauli Bypass	-297	-125	100	297	0.31	1.77	-1.47
MZP- GKP (D/C)	118	217	430	0	6.46	0.00	6.46
Patna-Balia(D/C)	169	291	386	0	6.75	0.00	6.75
B'Sharif-Balia (D/C)	186	173	539	0	11.81	0.00	11.81
Barh - balia(D/C)	192	0	423	0	4.06	0.00	4.06
Pusauli-Sahupuri	133	78	148	0	2.64	0.00	2.64
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	1.07	-1.07
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	471	602			32.03	2.84	29.18
Total IR Exch	650	1682			56.82	3.87	52.95

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
23.76	0.19	23.95	-4.28	2.08	0.53	-1.54	1.58	-1.58

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
21.77	-3.46	18.32	29.18	23.76	52.95	7.41	27.22	34.63

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	2.40	23.70	96.60	75.30	9.40	1.00

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.28	18.01	49.34	23.18	49.81	0.60	0.15	50.16	49.68

VII. Voltage profile

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	404	00:00	399	12:53	0.0	0.0	0.0	0.0
Gorakhpur	400	431	21:49	410	12:11	0.0	0.0	42.6	0.8
Bareilly	400	428	18:17	399	12:13	0.0	0.0	5.0	0.0
Kanpur	400	419	18:15	399	06:10	0.0	0.0	0.0	0.0
Dadri	400	422	21:49	401	12:10	0.0	0.0	1.3	0.0
Ballabgarh	400	425	21:50	399	12:11	0.0	0.0	7.2	0.0
Bawana	400	426	21:52	401	12:10	0.0	0.0	16.7	0.0
Bassi	400	425	18:16	394	06:20	0.0	0.0	6.8	0.0
Hissar	400	414	03:59	391	12:10	0.0	0.0	0.0	0.0
Moga	400	427	03:59	402	12:10	0.0	0.0	24.3	0.0
Abdullapur	400	427	04:00	404	12:10	0.0	0.0	22.9	0.0
Nalagarh	400	429	03:59	405	12:10	0.0	0.0	37.0	0.0
Kishenpur	400	423	04:01	401	10:02	0.0	0.0	3.2	0.0
Wagoora	400	406	13:01	380	22:06	0.0	38.6	0.0	0.0

VIII. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	484.66	577.33	491.30	798.09	203.97	599.78
Pong	426.72	384.05	406.50	388.64	411.58	544.90	82.15	420.02
Tehri	829.79	740.04	779.70	882.26	818.65	982.26	42.67	204.00
Koteshwar	612.50	598.50	609.15	4.21	NA	NA	200.00	185.00
Chamera-I	760.00	748.75	756.41	NA	NA	NA	146.33	207.90
Rihand	268.22	252.98	260.79	348.70	255.79	107.70	NA	NA
RPS	352.80	343.81	348.08	NA	NA	NA	NA	227.10
Jawahar Sagar	298.70	295.78	297.85	NA	NA	NA	NA	227.27
RSD	527.91	487.91	497.12	NA	504.35	NA	92.31	98.88

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 10.03.2012 :

1. Normal Weather.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 10.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER